

National Pollutant Discharge Elimination System (NPDES) Permit Program



National Pollutant Discharge Elimination System (NPDES)

- Hawaii is one of the EPA delegated States to administer NPDES permit program
- Clean Water Branch is responsible to implement the program



NPDES

Federal Law and Regulation

- Section 402 of Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (Commonly referred to as Clean Water Act)
- 40 Code of Federal Regulations (CFR)



NPDES

State Law and Regulation

- Hawaii Revised Statutes, Chapter 342D, Water Pollution
- Hawaii Administrative Rules, Title 11, Chapter 54, Water Quality Standards
- Hawaii Administrative Rules, Title 11, Chapter 55, Water Pollution Control
- <http://www.hawaii.gov/health/about/rules/admrules.html>



Summary of November 2002 Amendments to HAR, Chapter 11-55

- Adopted Phase II of the Storm Water Regulations
- Re-adopted eight (8) general permits
- Adopted three (3) new general permits
- Modified Appendix C to include Discharges of Storm Water from Small Construction Activities (1 to 5 Acres)
- Added HAR, Section §11-55-38
- Added HAR, Section §11-55-39



HAR, Section 11-55-38 (Effective November 7, 2002)

- Clarify procedures per HRS, Section 6E-42(a) requirements under the State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources (DLNR)



HRS, Section 6E-42(a) “before any agency or officer of the State or its political subdivisions approves any project involving a permit, license, certificates, land use change, subdivision, or other entitlement for use, which may affect historic property, aviation artifacts, or a burial site, the agency or office shall advise the department and prior to any approval allow the department an opportunity for review and comment on the effect of the proposed project on historic properties, aviation artifacts, or burial sites, consistent with section 6E-43, including those listed in the Hawaii register of historic places.”

HAR, Section 11-55-39 (Effective November 7, 2002)

- Clarify public interest procedures per HRS, Section 342D-6(g)



NPDES Permit Goals and Missions

- To ensure that Hawaii's coastal waters are safe and healthy for people, plants and animals
- To protect and restore the quality of Hawaii's streams, wetlands, estuaries and other inland waters for fish and wildlife, recreation, aesthetic enjoyment and other beneficial uses



When an NPDES permit is required?

- An NPDES permit is required when:
 - a discharge of pollutant;
 - from a point source;
 - into State Waters.



Beginning of the NPDES Permit Program

- Regulates the discharges of wastewaters from municipal, industrial and federal facilities, such as:
 - > Wastewater treatment plant effluent
 - > Power plant process wastewater
 - > Concentrated animal feeding operation
 - > Sugar mill operation
 - > Mineral mining



Storm Water Regulations

- In 1987, Congress added 402(p) of the CWA which requires EPA to develop storm water regulations in phases
- To regulate storm water discharges from industrial activities
- On November 16, 1990, EPA adopted Phase I rules to regulate storm water discharges
- On December 8, 1999 EPA adopted Phase II storm water rules



December 8, 1999 EPA Adopted Phase II Storm Water Rules

February 7, 2000

- Conditional “No Exposure” exclusion

March 10, 2003

- Small Municipal Separate Storm Sewer Systems (Small MS4)
- Construction activities 1 to 5 acres
- Municipally-Operated industrial activities



Conditional “No Exposure” Exclusion

- Effective January 6, 2001.
- “No exposure” means that all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff.
- Submit certification to DOH.
- NO filing fee.



What is a Municipal Separate Storm Sewer System (MS4)?

- An MS4 is a conveyance or system of conveyances....owned by a state, city, town or other public entity that discharges to waters of the U.S. and is:
 - designed or used for collecting or conveying storm water
 - not a combined sewer
 - not part of a Publicly Owned Treatment Works (POTW)

Small Municipal Separate Storm Sewer System (Small MS4)

- A small MS4 is any MS4 that is not already designated and regulated as a medium or large MS4, and includes Federally-operated systems.

Regulated Small MS4

- A regulated small MS4 is any small MS4:
 - Located in an “urbanized area” (automatic” nationwide designation) and not waived by the permitting agency; or
 - Designated by the permitting agency

Urbanized Area

- A central place (or places) and the adjacent densely settled surrounding territory that together have a minimum residential population of 50,000 people and a minimum average density of 1,000 people per square mile.
- A compilation of the population densities for the latest Decennial Census in Hawaii, Maui, and Kauai Counties is located in the “Resident Population, Land Area and Density for Islands and Census Tracts in the State of Hawaii: 2000 (Revised 2/22/02)” at <http://www.hawaii.gov/dbedt/census2k/ctd-00r.pdf>

County of Maui

Areas Over 1,000 People Per Square Mile

- South Wailuku
- West Kahului
- Northeast Kahului
- South Kihei
- North Kihei
- Lahaina Town
- Southeast Kahului
- East Central Wailuku
- North Wailuku
- West Central Wailuku
- Central Kahului

Intermodal Surface Transportation Efficiency Act (ISTEA)

- **March 10, 2003 is the deadline for municipally operated-industrial activities which were temporarily exempted under Phase I rule (with populations less than 100,000 people) to obtain a storm water discharge permit.**

Industrial Activities Require Storm Water Permits

1. Facilities subject to EPA's National Effluent Guidelines
2. Manufacturing facilities
3. Mining and oil and gas operations
4. Hazardous waste treatment, storage, or disposal facilities
5. Landfills that receive industrial wastes



Industrial Activities Require Storm Water Permits (Continued)

6. Steam electric power generating facilities
7. Transportation facilities
8. Sewage treatment plant
9. Construction activities 1 acres or more
10. Facilities where materials are exposed to storm water
11. Recycling facilities



Business Classification Codes

- Standard Industrial Classification Codes (SIC)
- North American Industry Classification System (NAICS) by the end of September 2002
- <http://www.census.gov/epcd/www/naics.html>



Types of NPDES Permit

- General permit
- Individual permit

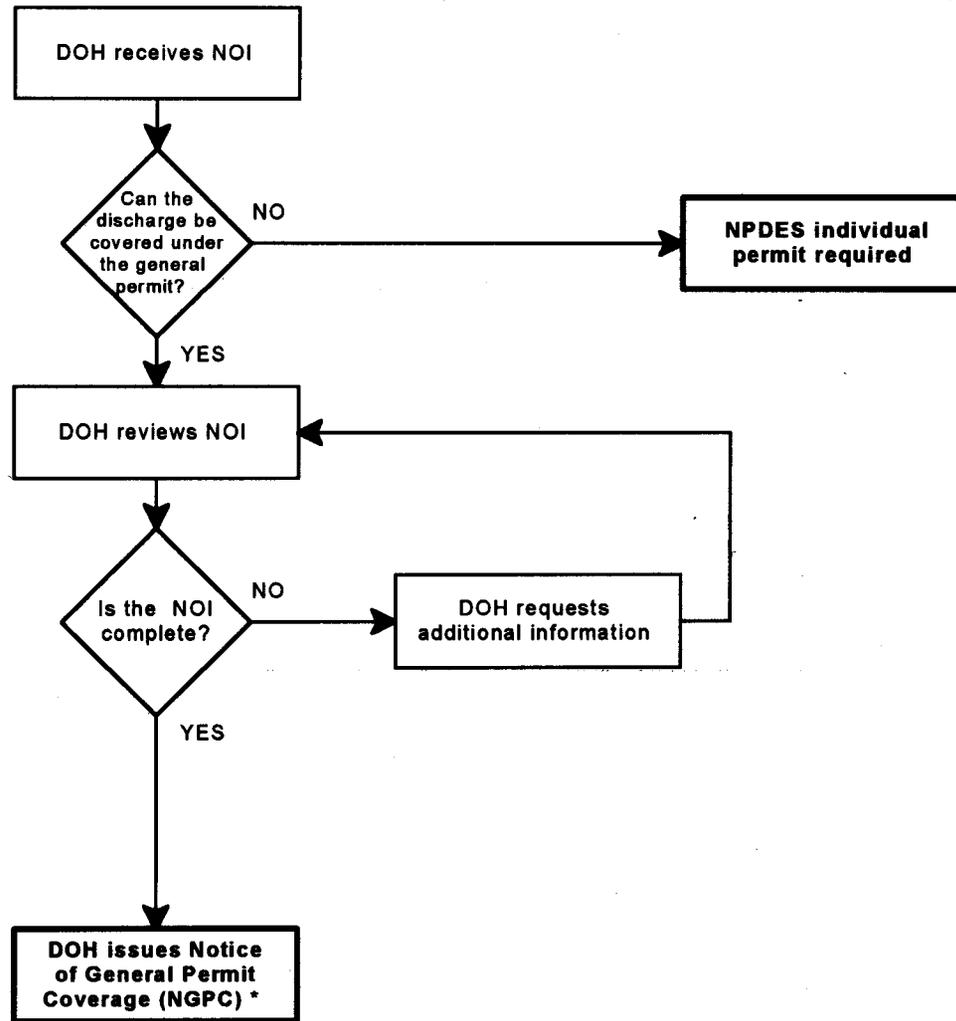


General Permit

- Adopted as rules (Chapter 11-55)
- Similar nature of discharge
- Minor and Non-controversial
- 30 days to process (with complete Notice of Intent)
- \$500 filing fee
- Good up to five (5) years



NPDES General Permit Processing Flowchart



* Coverage may be issued within 30 days of receipt of complete NOI or automatic coverage may be assumed as specified in Hawaii Administrative Rules (HAR) Section 11-55-34.09.

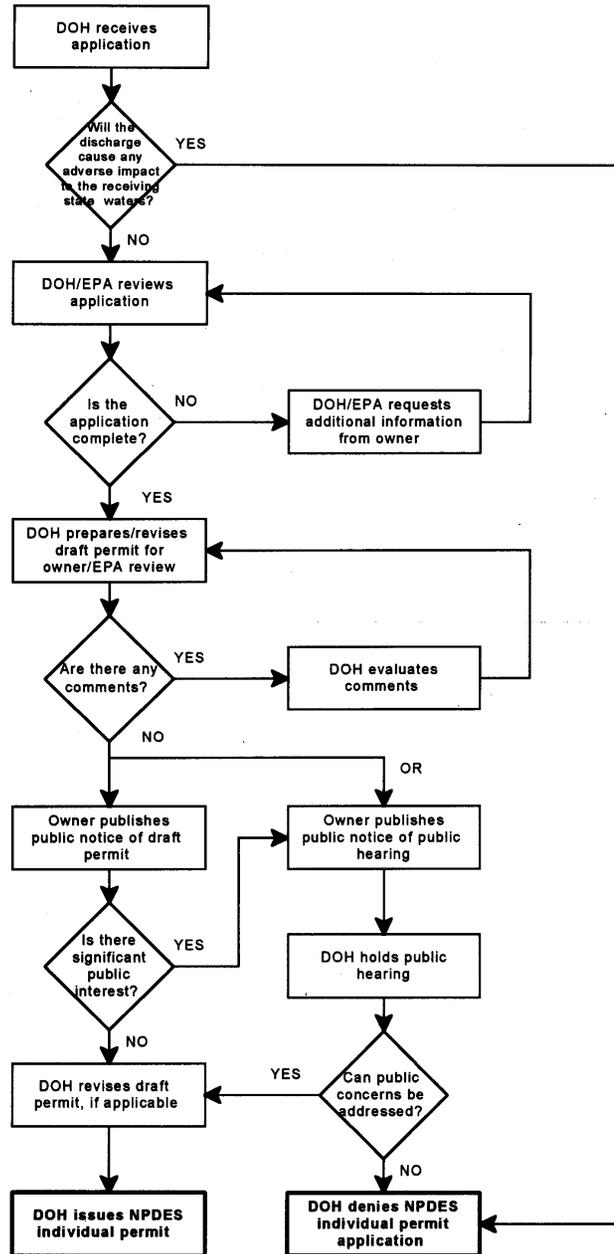


Individual NPDES Permit

- Discharge does not qualify for general permit coverage
- Custom made
- 180 days or more to process (with complete application)
- \$1000 filing fee
- Applicant responsible for publication fee
- Good up to five (5) years



NPDES Individual Permit Processing Flowchart



06-17-97



To streamline NPDES permit process

- Hawaii adopted 11 general permits, three (3) of the general permits are related to storm water discharges.



NPDES General Permit

Appendix B - Storm water associated with industrial activities

Appendix C - Storm water associated with construction activities

Appendix D - Treated effluent from leaking Underground Storage Tank remedial activities

Appendix E - Once through cooling water less than one (1) million gallons per day



NPDES General Permit (continued)

Appendix F - Hydrotesting water

Appendix G - Construction dewatering

Appendix H - Treated effluent from petroleum
bulk stations and terminals

Appendix I - Treated effluent from well
drilling activities



NPDES General Permit (continued)

Appendix J – Occasional or Unintentional
Discharges from Recycled Water Systems

Appendix K – Discharges of Storm Water
from Small Municipal Separate Storm
Sewer Systems

Appendix L – Discharges of Circulation
Water from Decorative Ponds or Tanks



After the Storm

**A Video Co-produced by EPA
and The Weather Channel**

Notice of Intent

- Is a form used to apply for a coverage under a general permit
- Each general permit has its own Notice of Intent form (e.g. CWB-NOI Form B, CWB-NOI Form C, and CWB-NOI Form G)



Notice of Intent
Form B
for
General Permit Coverage
Authorizing Discharges of Storm
Water Associated With Industrial
Activities



Notice of Intent Form B

Common Errors

- Item 5.c. – Receiving State Water Information
 - If there is more than one discharge point, provide a list of the discharge point coordinates on a separate sheet
 - If the storm water discharges into a separate storm sewer system, a permit, license or approval is required from the owner of the system



Notice of Intent Form B

Common Errors (Continued)

- Item 7. – Non-Storm Water Information
 - List all sources of non-storm water that may be generated at the site/facility (e.g. vehicle/equipment/pavement wash water, water used for dust control and irrigation, process water, etc.). Need to provide all possible sources of the non-storm water and their control measures to prevent its discharge.
 - If structural control measures are used to prevent non-storm water from being discharged, show their location(s) on the site map and provide a description with details showing the control measures.



Notice of Intent Form B Common Errors (Continued)

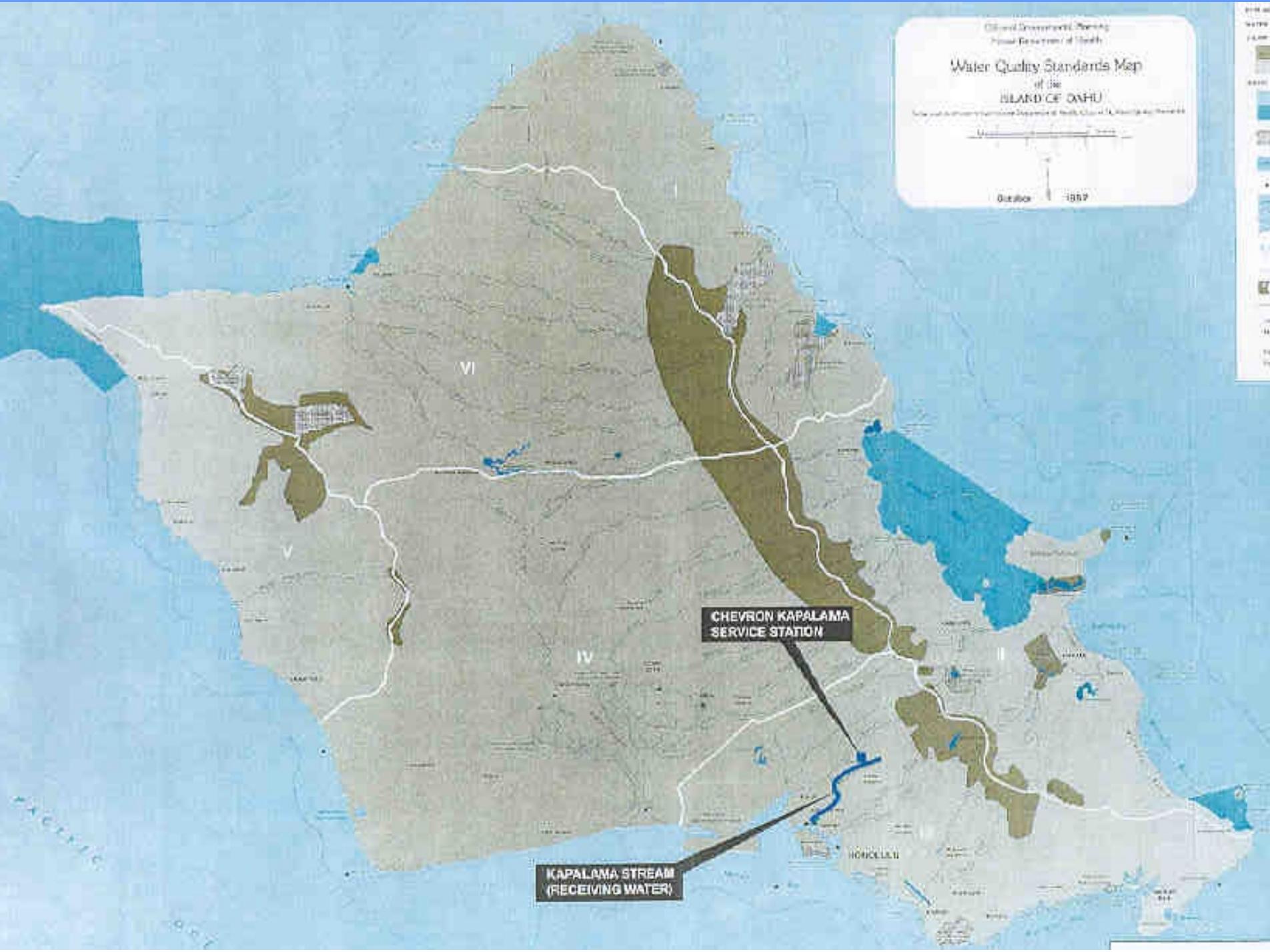
- Item 8. – Location Map
 - Label the locations of the discharge point as provided in Item 5.a. (receiving water) and 5.c. (drainage system) on the location map



City and County of Honolulu
Public Department of Health

Water Quality Standards Map of the ISLAND OF OAHU

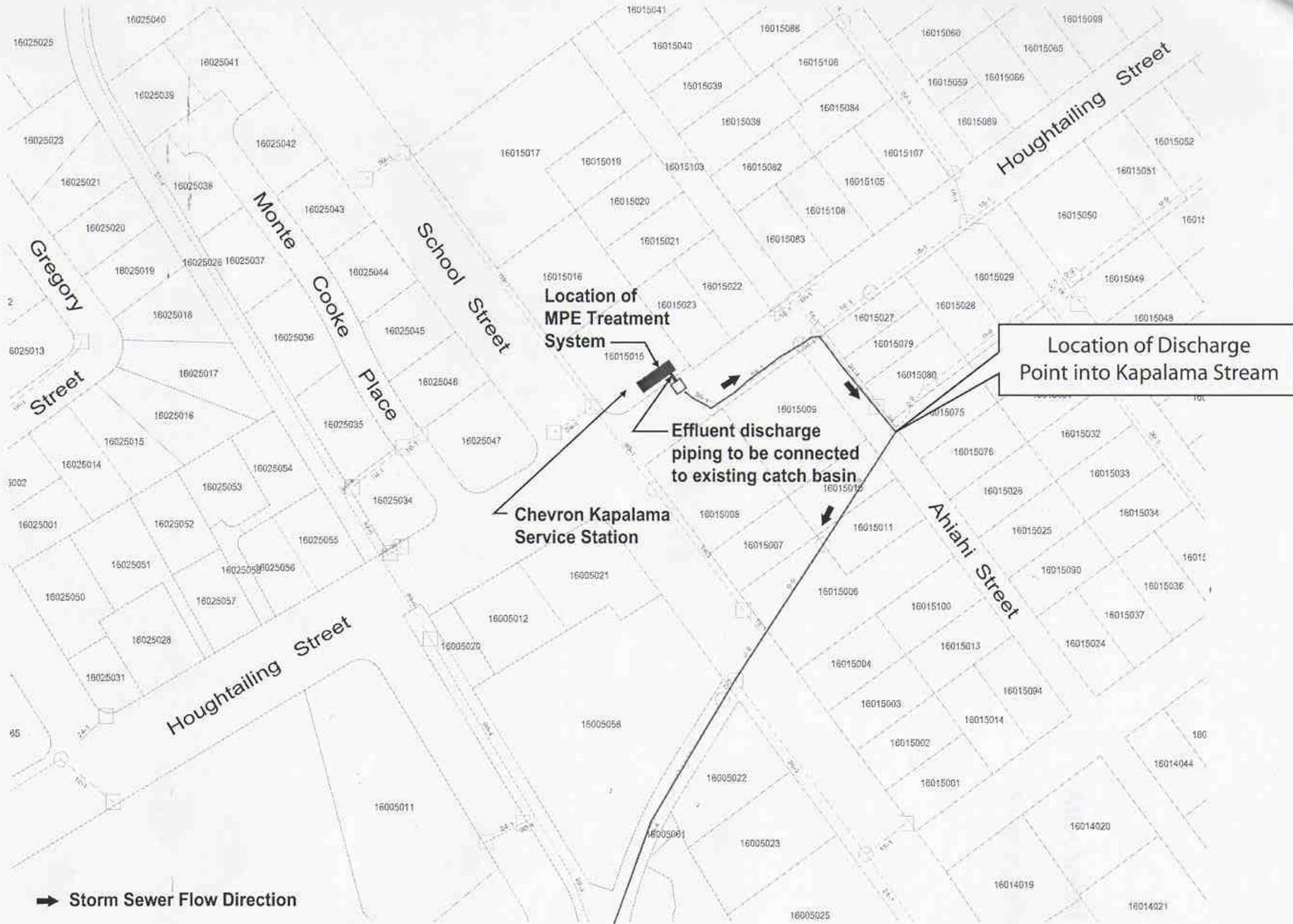
City and County of Honolulu Department of Health, Office of Environmental Health



**CHEVRON KAPALAMA
SERVICE STATION**

**KAPALAMA STREAM
(RECEIVING WATER)**





Kapalama Chevron Service Station, Honolulu Hawaii

Notice of Intent Form B Common Errors (Continued)

- Item 14. – Site Map
 - Show the site's drainage pattern with flow arrows within the site, including along the property lines/boundaries.
 - Show the drainage areas (highlighted/hatched and labeled) corresponding to each discharge point.



Notice of Intent Form B

Common Errors (Continued)

- **Items 18 and 19 – Water Quality Parameters and Toxic Parameters**

- The test methods shall be in accordance with the Code of Federal Regulations (CFR), Title 40, Part 136 and the Method Detection Limits (MDL) should be below the State's numeric limitations or be the lowest achievable MDL closest to the State's numeric limitations.
- When the facility is applying for renewal, the facility will have to submit test results for all parameters as listed in Item 18, not just the parameters as required in the existing permit.



Notice of Intent Form B Common Errors (Continued)

- Others
 - Only the person certifying the NOI or the owner's authorized representative shall submit information. Any correspondence shall include the certification statement and original signature.



Notice of Intent
Form C
For
General Permit Coverage
Authorizing Discharges of Storm
Water Associated With
Construction Activities



When is an NPDES permit required for construction activities?

- An NPDES permit is required for any construction activities, including clearing, grading, and excavation, that result in the disturbance of **one acre or more** of total land area under a larger common plan of development or sale, **and**
- **Prior to commencement** of construction activities.



Construction Activities Larger Common Plan of Development or Sale

- A "larger common plan of development or sale" is a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under one plan.



The “Plan” in a Common Plan of Development or Sale

- The “plan” is broadly defined as any announcement or piece of document (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot.



County-Approved Erosion and Sediment Control Plan

- A county-approved erosion and sediment control plan as appropriate for the activity and a schedule for implementing each control shall be submitted to the director **with the notice of intent or 30 days before the start of construction activities.**
- Construction may start before the end of the 30 days period as soon as the department accepts the county-approved erosion and sediment control plan.



Site-Specific Construction Best Management Practices Plan

- A site-specific construction Best Management Practices (BMP) plan shall be submitted to the director with the notice of intent or 30 days before the start of construction activities.
- Construction may start before the end of the 30 days period as soon as the department accepts the plan.

Notice of Intent Form C

Common Errors

- Item 5 – Receiving State Waters Information
 - Indicate “and Estuary” or ”and Embayment” if an estuary or embayment condition exists.
 - Written approval allowing discharges into the separate storm drainage, even if the applicant is the owner.



Outfall I.D. No.: Rte. _____ M.P. _____ (for office use) (NPDES)	NPDES File No. HIR10B320 (DOH)
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PERMIT TO DISCHARGE INTO THE STATE HIGHWAYS DRAINAGE SYSTEM

Application Date 9-9-, 2002

Pursuant to Hawaii Administrative Rules, Chapter 11-55, application is hereby made to discharge into the State Highway drainage system at the location(s) specified below and at no other place.

1. Name of Highway/Route No: Kuhio Highway/Route 56 and Kaunualii Highway/Route 50
2. Tax Map Key: No TMK number assigned to Kuhio Highway and Kaunualii Highway. Highways located along the following Plats: 1-2-02,06,13; 1-3-01,03,04,05,10,11; 1-6-05,06,07,08,09,10; 1-6-05,06,07,08,09,10; 1-7-05,06; 1-8-02,05,07,08; 1-9-05,06,07,10;

2-1-01,03,04,05,06,07,08,09; 2-2-01,02; 2-3-01,02,03,04,12; 2-4-01,07,11,12,13; 2-5-01,03,04,05,06,07,09,11; 2-7-01,02,03,05,06,07,08; 2-8-01

3-3-02,03,04,05,06,10,11; 3-4-01,05,06,07; 3-6-05,06; 3-7-01,04,07; 3-8-03,04,05,06,07,08,09,14
3. Location: Kuhio Highway (from Maalo Road to Rice Street) and Kaunualii Highway (from Rice Street to Akialoa Road) Note: Attached drawings show drainage outlets highlighted in blue.
(Project name: SIC Fiber Optic Project-Hanamaulu to Kekaha)

4. Type of Discharge (check one):
 - Storm water associated with industrial activities Construction activity dewatering
 - Storm water associated with construction activities Hydrotesting
 - Others
(Describe) _____

Licensee*, the undersigned, hereby agree to the following:

1. That Licensee shall indemnify and hold the State free and harmless from all suits and actions resulting from the licensee's discharge operations.
2. That Licensee shall provide appropriate best management practices and/or treatment devices for the removal of soil particles, and/or other pollutant(s) in the discharge, and such discharge shall meet the basic water quality criteria applicable to all waters, as identified in Section 11-54-4, and/or any other applicable sections in Chapter 11-54, Hawaii Administrative Rules, at the point of discharge into State waters.
3. That Licensee shall obtain a National Pollutant Discharge Elimination System (NPDES) permit as required by the State Department of Health and submit a copy to the State Department of Transportation Highways Division.
4. That a copy of effluent monitoring required by the NPDES permit shall be furnished to the State Department of Transportation Highways Division.

5. That Licensee shall make all restorations to any State Highway property damaged during the Licensee's discharge operations in accordance with the State Department of Transportation Highways Division requirements.
6. That Licensee shall discontinue the discharge should the State Department of Health determine that the receiving waters are being polluted, or the discharge does not meet the effluent requirements of the NPDES permit, or the Licensee's operations are not in the best interest of the general public. In addition, the Licensee shall be liable for any and all penalties as a result of discharges from the Licensee's system.
7. That if the State Department of Transportation Highways Division determines that any materials or substances from the Licensee's discharge operations have settled into any storm sewer, Licensee shall immediately remove and clear any material and substance to the satisfaction of the State Department of Transportation Highways Division.
8. That Licensee shall inspect and clean the State Highway drainage system prior to discharging.
9. That Licensee shall notify the District Engineer at least 24 hours before commencing discharge and at the conclusion of the discharge operation to arrange for necessary inspectional services at telephone number 274-3111.
10. The Licensee shall require this permit to be a part of the contract with the contractor.

 8/29/02
 Signature of Licensee Date

Kauhi Kelinaa
 Print Name and Title

Sandwich Isles Communications, Inc.
 Company Name

1001 Bishop Street, Pauahi Tower, 27th Floor
 Company Address

Honolulu, Hawaii 96813
 City, State, Zip Code

(808) 524-8400
 Telephone No.

APPROVED
 9/9/02
 Administrator, Highways Division Date

Highway Permit No. SDD-02001

Work Started: _____

Work Completed: _____

Inspector: _____

*Licensee shall be the owner or authorized representative of the owner applying for the permit.
 Attach: Drain Connection Plans (3 sets)

Notice of Intent Form C

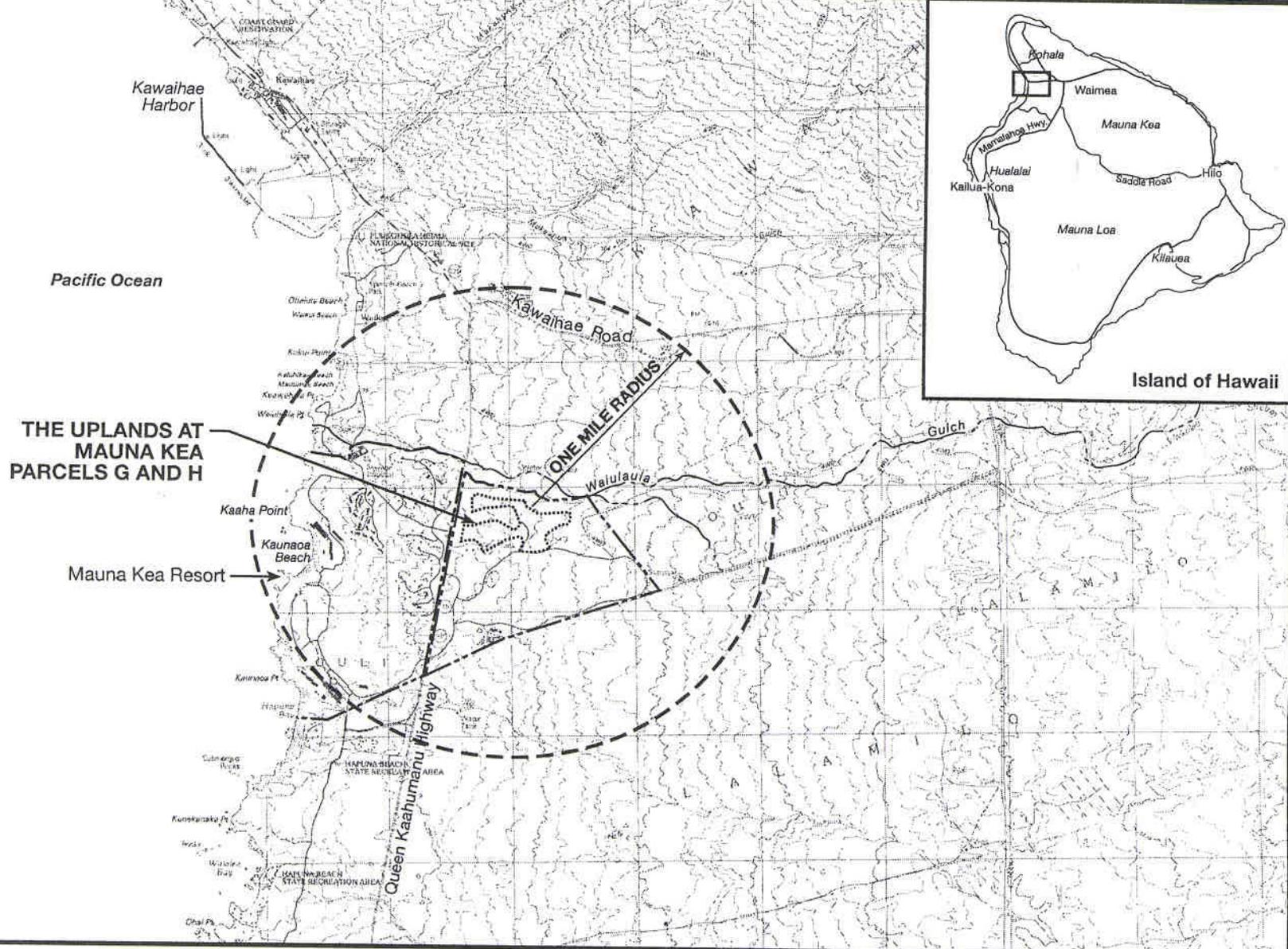
Common Errors (Continued)

- Item 7 – Non-Storm Water Information
 - Identify all the sources of non-storm water (e.g. hydrotesting, dewatering, dust control water, irrigation water, equipment/vehicle wash water, concrete truck drum wash water, concrete curing water, left over or rejected concrete, high pressure wash water.
 - Provide the handling/disposal method(s) so that the non-storm waters will not be discharged directly or indirectly (commingle with storm water) into State waters.

Notice of Intent Form C Common Errors (Continued)

- Item 8 – Location maps
 - Provide a map showing at least one (1) mile beyond the project boundaries and location of the project site in relation to the island.
 - Provide a site map identifying and numbering each storm drainage inlet (w/ coordinates) that may receive discharge from the project.





**THE UPLANDS AT
MAUNA KEA
PARCELS G AND H**



NORTH

0 2000 4000



SCALE IN FEET

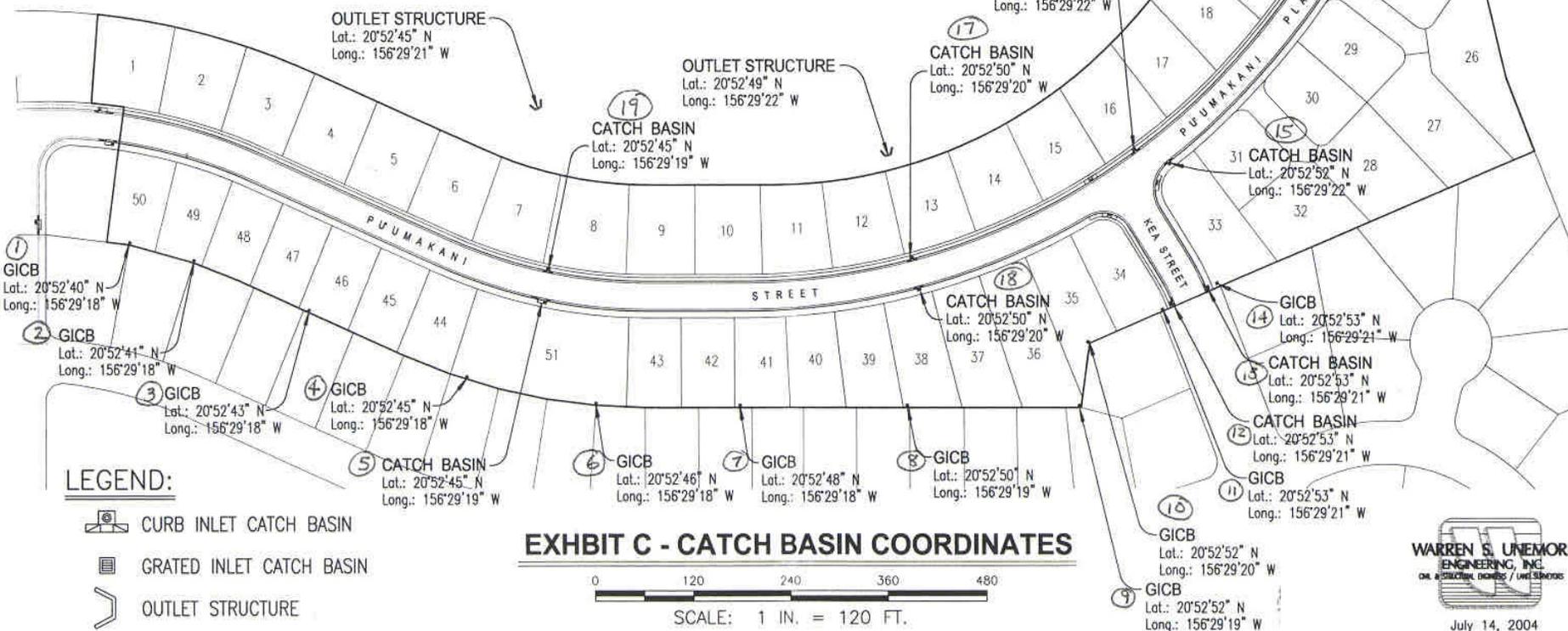
**Figure 1
PROJECT LOCATION**

The Uplands at Mauna Kea Parcels G and H
NPDES-NOI Form C
May 2004

TRUE NORTH
SCALE: 1 IN. = 120 FT.

MAUI LANI ISLAND AND BLUFF SUBDIVISION - PHASE 1

THE DUNES AT MAUI LANI GOLF COURSE



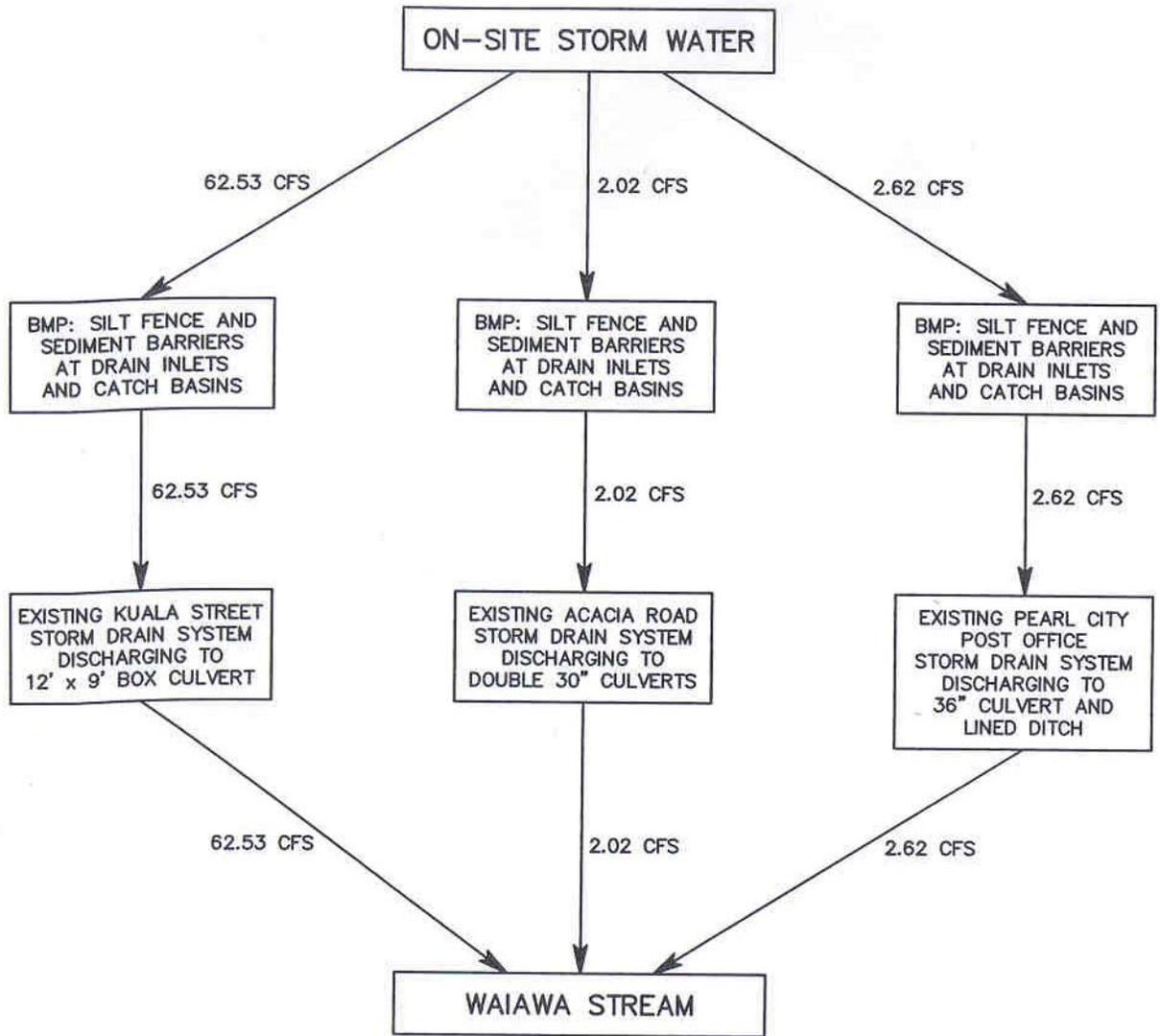
WARREN S. UNEMORI
ENGINEERING, INC.
a professional corporation / civil engineers

July 14, 2004

Notice of Intent Form C Common Errors (Continued)

- Item 9 – Flow Chart
 - Provide a flow chart indicating how the storm water flows flow the project site and include the approximate amount of flow at each stage. Indicate any treatment or erosion control used.
 - See Guidelines for CWB-NOI Form C for an example of the flow chart.





Notice of Intent Form C

Common Errors (Continued)

- Item 10 – Existing or Pending Permits, Licenses, or Approvals
 - Provide a copy of the acknowledgement from the Department of Land and Natural Resources (DLNR), State Historic Preservation Division (SHPD) indicating that a copy of NOI has been submitted to them. If an acknowledgement from DLNR is not received when the NOI was submitted, provide a copy of the transmittal letter to DLNR SHPD.





STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
KAKUHIHEWA BUILDING, ROOM 555
601 KAMOKILA BOULEVARD
KAPOLEI, HAWAII 96707

PETER T. YOUNG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DAH DAVIDSON
DEPUTY DIRECTOR - LAND

ERNEST Y.W. LAU
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND PRESERVE COMMISSION
LAND
STATE PARKS

HAWAII HISTORIC PRESERVATION DIVISION REVIEW
NPDES PERMIT APPLICATION

MAY 21 2004

Log #: 2004.1447
Doc #: 0405EJ06

Applicant/Agency: ~~Best Buy Company~~
~~Costco & Home Depot, Inc.~~
Address: ~~2016 S. King Street~~
Honolulu, Hawaii 96826

SUBJECT: Chapter 6E-42 Historic Preservation Review Notice of Intent to Be Covered
Under NPDES General Permit for Best Buy Company at Iwilei

Ahupua`a: Iwilei
District, Island: Kona, O`ahu
TMK: (1) 1-5-012:012 and 014

- 1. This project has undergone state or federal historic preservation review.
 - a. mitigation has been completed
 - b. other
- 2. We have not been consulted on this undertaking, however we believe there are no historic properties present, because:
 - a) intensive cultivation has altered the land
 - b) residential development/urbanization has altered the land
 - c) previous grubbing/grading has altered the land
 - d) an acceptable archaeological assessment or inventory survey found no historic properties
 - e) other: The area is comprised of fill soils. No historic properties have been identified during the recent re-development of the Ala Kawa Street commercial area (Home Depot, Costco etc.)

Thus, this letter serves as our "no historic properties affected" determination since we believe this undertaking will have no effect on significant historic properties.

Aloha,

P. Holly McEldowney

P. Holly McEldowney, Acting Administrator
State Historic Preservation Division

In the unlikely event that historic sites, including human burials, are uncovered during routine construction activities, all work in the vicinity must stop and the State Historic Preservation Division must be contacted at 692-8015.

RECEIVED

Notice of Intent Form C

Common Errors (Continued)

- Item 15 – Construction Best Management Practices (BMP) Plan
 - Show the drainage patterns from the project site (including offsite areas adjacent to the project boundaries) to the State receiving water with flow arrows.
 - Show the locations and descriptions of all structural controls including those that will be used to divert the offsite storm water from flowing into the construction site.



EROSION CONTROL NOTES

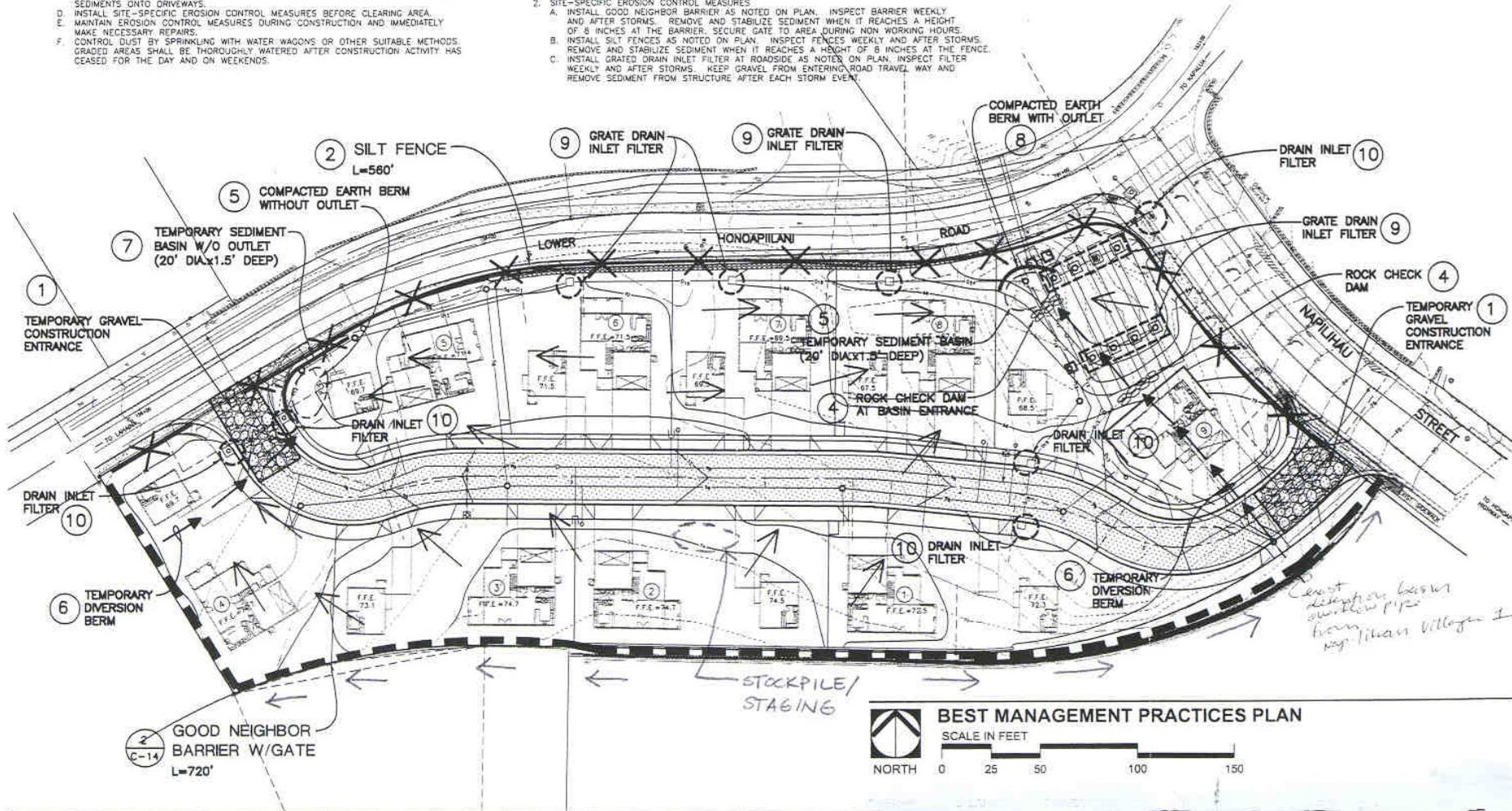
THE FOLLOWING IS AN OUTLINE OF THE EROSION CONTROL MEASURES THAT WILL BE IMPLEMENTED FOR THIS PROJECT.

1. GENERAL EROSION CONTROL MEASURES

- A. MINIMIZE TIME OF CONSTRUCTION.
- B. RETAIN EXISTING GROUND COVER UNTIL THE LATEST DATE TO COMPLETE CONSTRUCTION.
- C. PROVIDE TEMPORARY GRAVEL APRON(S) (APPROXIMATELY 20' LONG BY 20' WIDE) AT POINT(S) OF CONNECTION TO EXISTING PAVED DRIVEWAYS TO PREVENT TRACKING OF SEDIMENT(S) ONTO DRIVEWAYS.
- D. INSTALL SITE-SPECIFIC EROSION CONTROL MEASURES BEFORE CLEARING AREA.
- E. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION AND IMMEDIATELY MAKE NECESSARY REPAIRS.
- F. CONTROL DUST BY SPRINKLING WITH WATER WAGONS OR OTHER SUITABLE METHODS. GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND ON WEEKENDS.

2. SITE-SPECIFIC EROSION CONTROL MEASURES

- A. INSTALL GOOD NEIGHBOR BARRIER AS NOTED ON PLAN. INSPECT BARRIER WEEKLY AND AFTER STORMS. REMOVE AND STABILIZE SEDIMENT WHEN IT REACHES A HEIGHT OF 6 INCHES AT THE BARRIER. SECURE GATE TO AREA DURING NON WORKING HOURS.
- B. INSTALL SILT FENCES AS NOTED ON PLAN. INSPECT FENCES WEEKLY AND AFTER STORMS. REMOVE AND STABILIZE SEDIMENT WHEN IT REACHES A HEIGHT OF 6 INCHES AT THE FENCE.
- C. INSTALL GRATED DRAIN INLET FILTER AT ROADSIDE AS NOTED ON PLAN. INSPECT FILTER WEEKLY AND AFTER STORMS. KEEP GRAVEL FROM ENTERING ROAD TRAVEL WAY AND REMOVE SEDIMENT FROM STRUCTURE AFTER EACH STORM EVENT.



NORTH

BEST MANAGEMENT PRACTICES PLAN

SCALE IN FEET

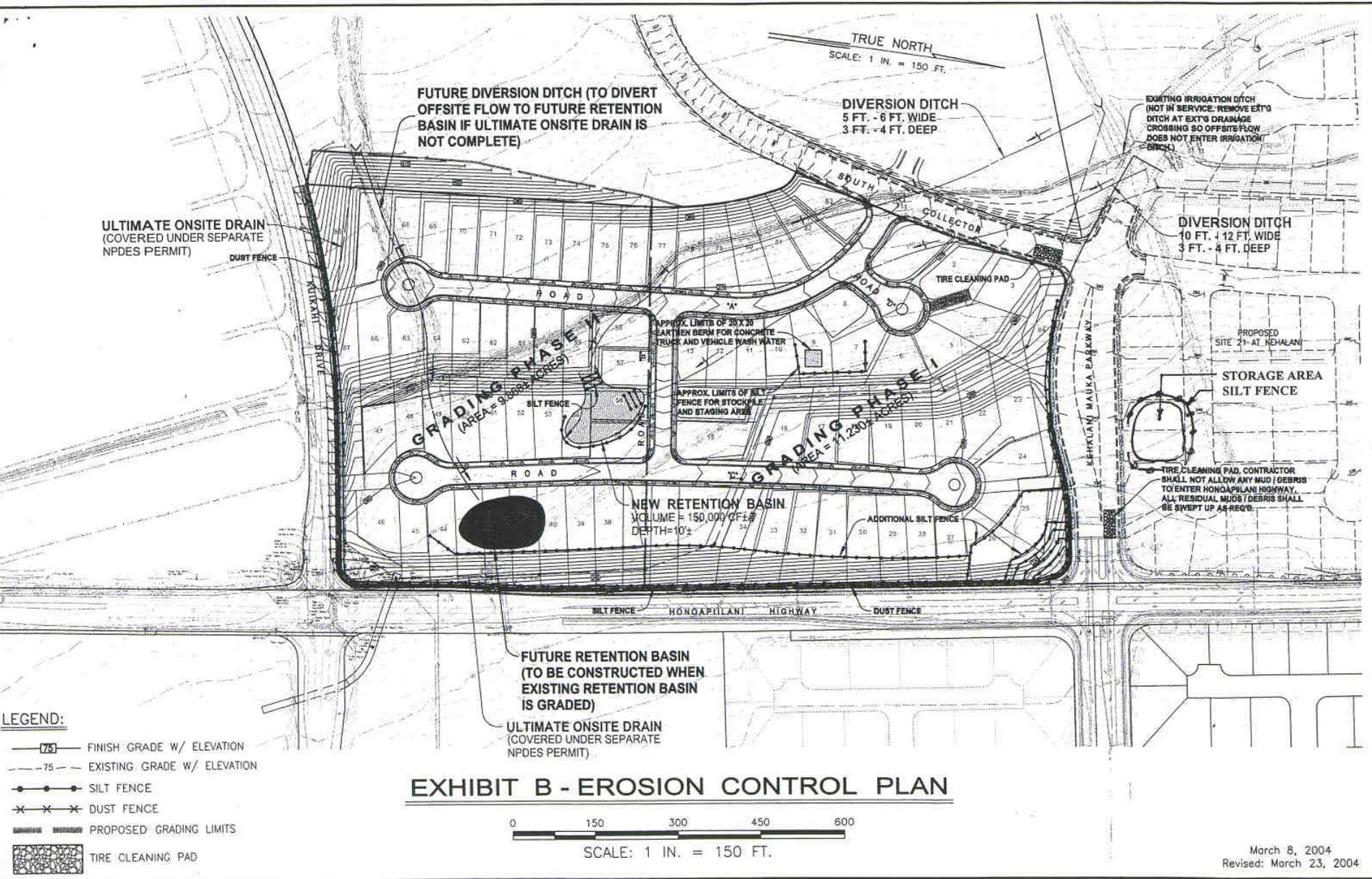


Notice of Intent Form C

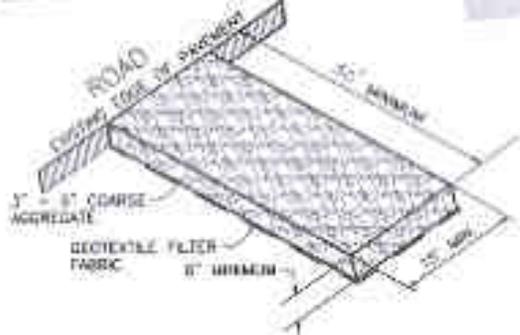
Common Errors (Continued)

- Item 15 – Construction Best Management Practices (BMP) Plan (continued)
 - Provide details and typical sections (with dimensions) for all BMPs, including the drain/catch basin inlet protection, silt fencing, concrete chute wash basin, etc.
 - Provide a plan/drawing showing and calling out the locations for the storage areas, concrete drum washouts, vehicle/equipment wash, and any other locations that may generate pollutants. Provide details of the containment area, including capacity, for the concrete drum washout and vehicle/equipment wash area.

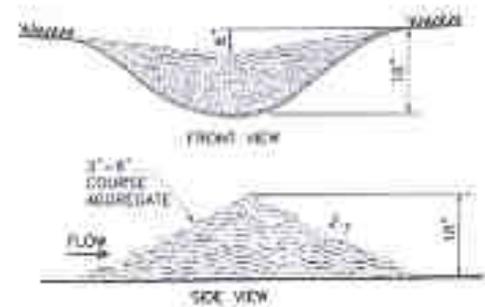




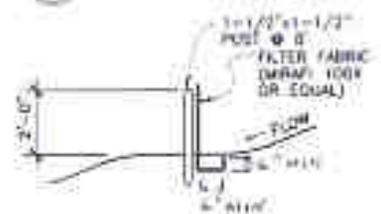
March 8, 2004
Revised: March 23, 2004



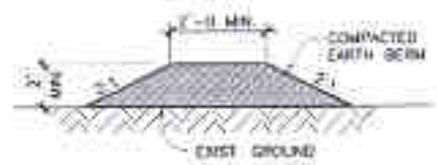
1 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE



4 ROCK CHECK DAM
NOT TO SCALE



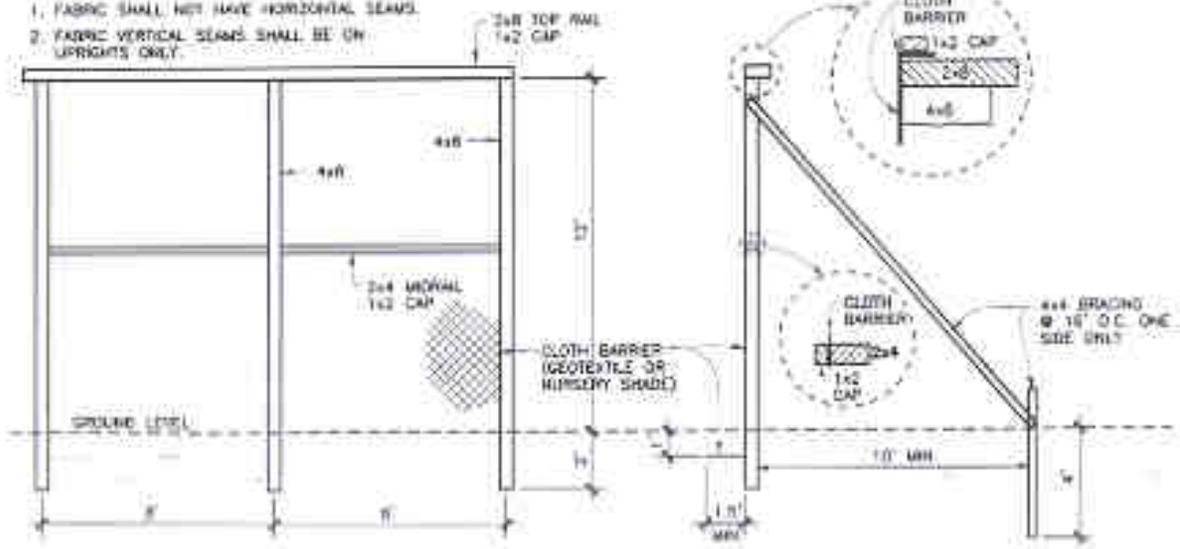
2 SILT FENCE SECTION
NOT TO SCALE



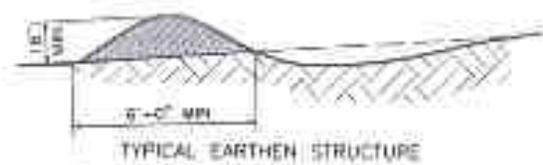
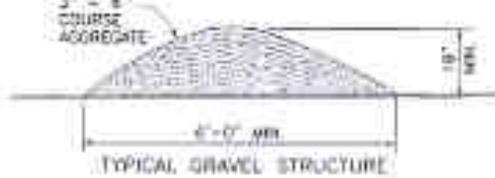
5 COMPACTED EARTH BERM WITHOUT OUTLET
NOT TO SCALE

NOTE:

1. FABRIC SHALL NOT HAVE HORIZONTAL SEAMS.
2. FABRIC VERTICAL SEAMS SHALL BE ON UPRIGHTS ONLY.



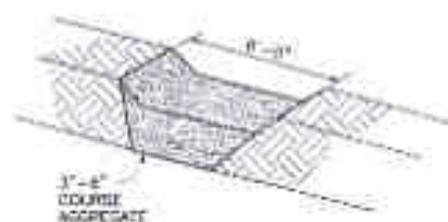
3 GOOD NEIGHBOR BARRIER (TYPICAL SECTION)
NOT TO SCALE



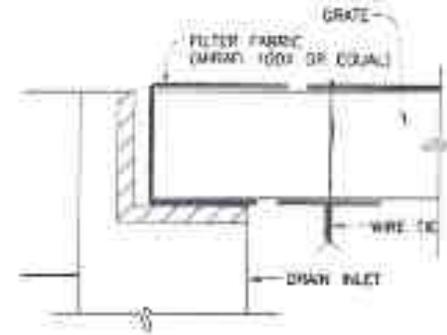
6 **TEMPORARY DIVERSION BERM**
NOT TO SCALE



7 **TEMPORARY SEDIMENT BASIN**
NOT TO SCALE



8 **COMPACTED EARTH BERM WITH OUTLET**
NOT TO SCALE

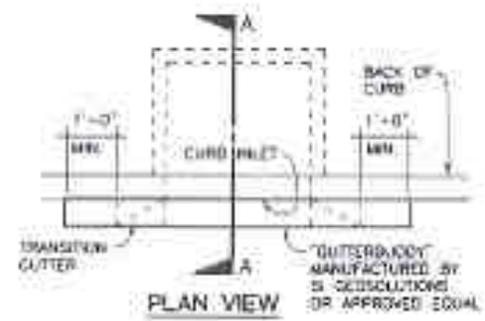


NOTE: WRAP DRAIN INLET GRATE WITH FILTER FABRIC AND FASTEN WITH WIRE TIES.

9 **GRATE DRAIN INLET FILTER**
NOT TO SCALE

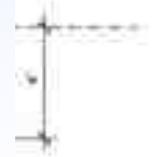


SECTION A-A



10 **DRAIN INLET FILTER**
NOT TO SCALE

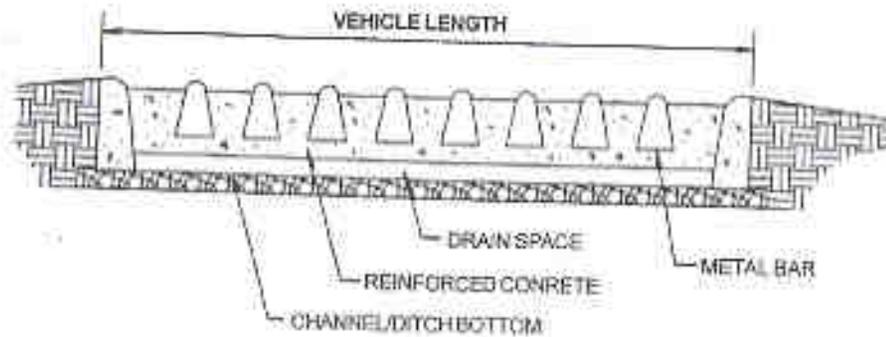
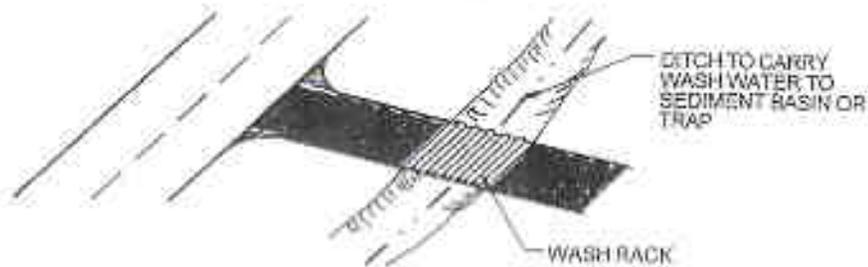
#4 BRACING
1'-10" O.C. ONE
SIDE ONLY



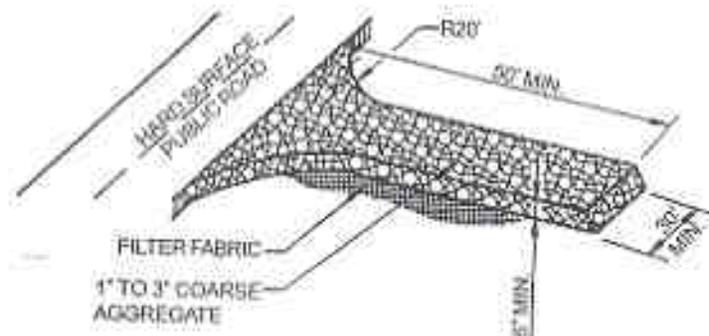
BEST MANAGEMENT PRACTICES DETAILS
SCALE IN FEET

0 25 50 100 150

ADDITIONAL INFORMATION: STABILIZED CONSTRUCTION ENTRANCE

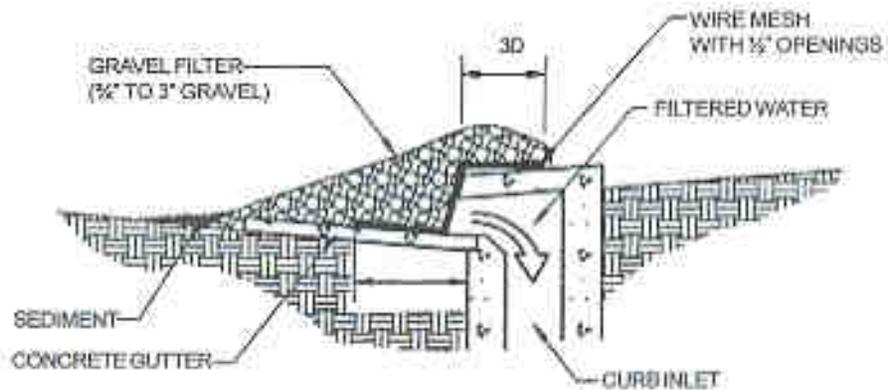
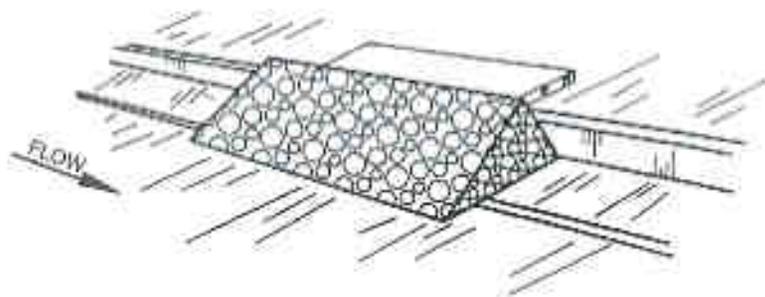


WASH RACK (SCHEMATIC)



STABILIZED CONSTRUCTION ENTRANCE

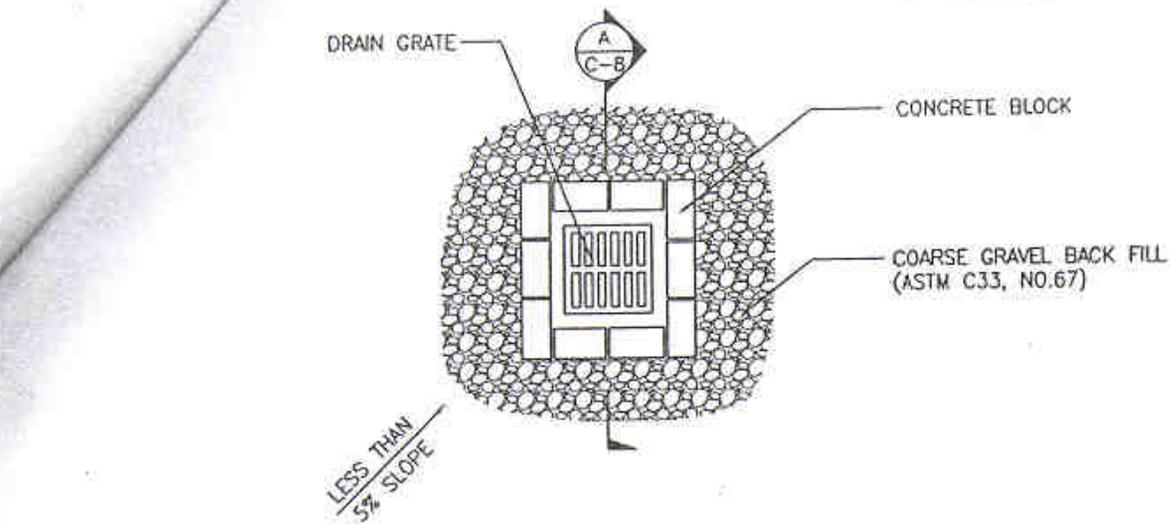




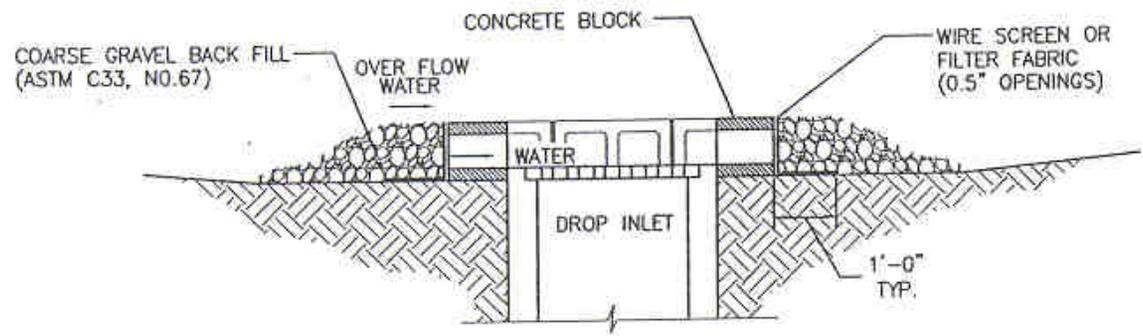
GRAVEL AND WIRE MESH FILTER FOR CURB INLET

ESC64



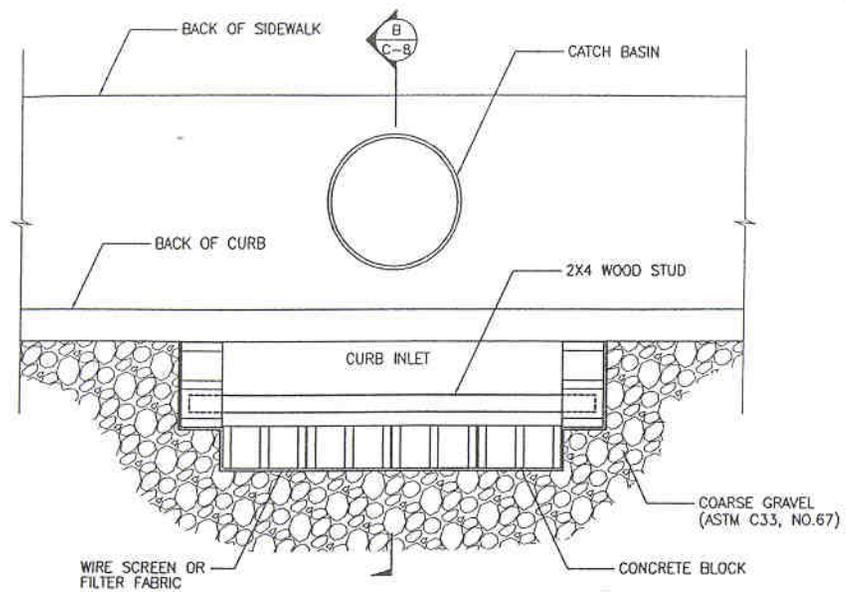


PLAN

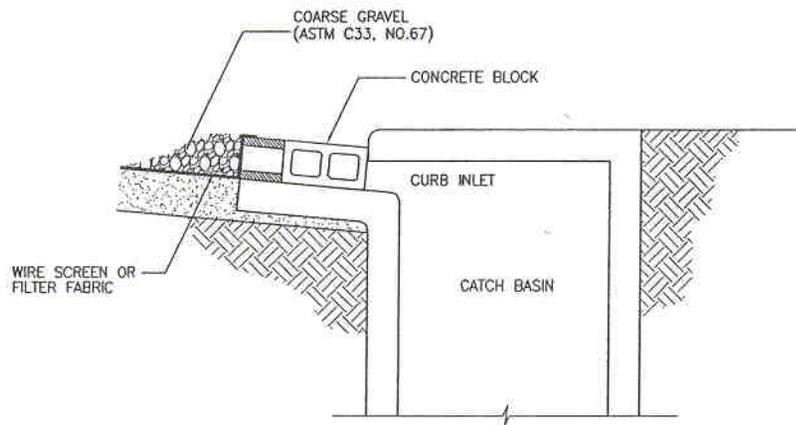


SECTION A
C-8

BLOCK AND GRAVEL FILTER @ DRYWELL DETAIL
NOT TO SCALE



PLAN



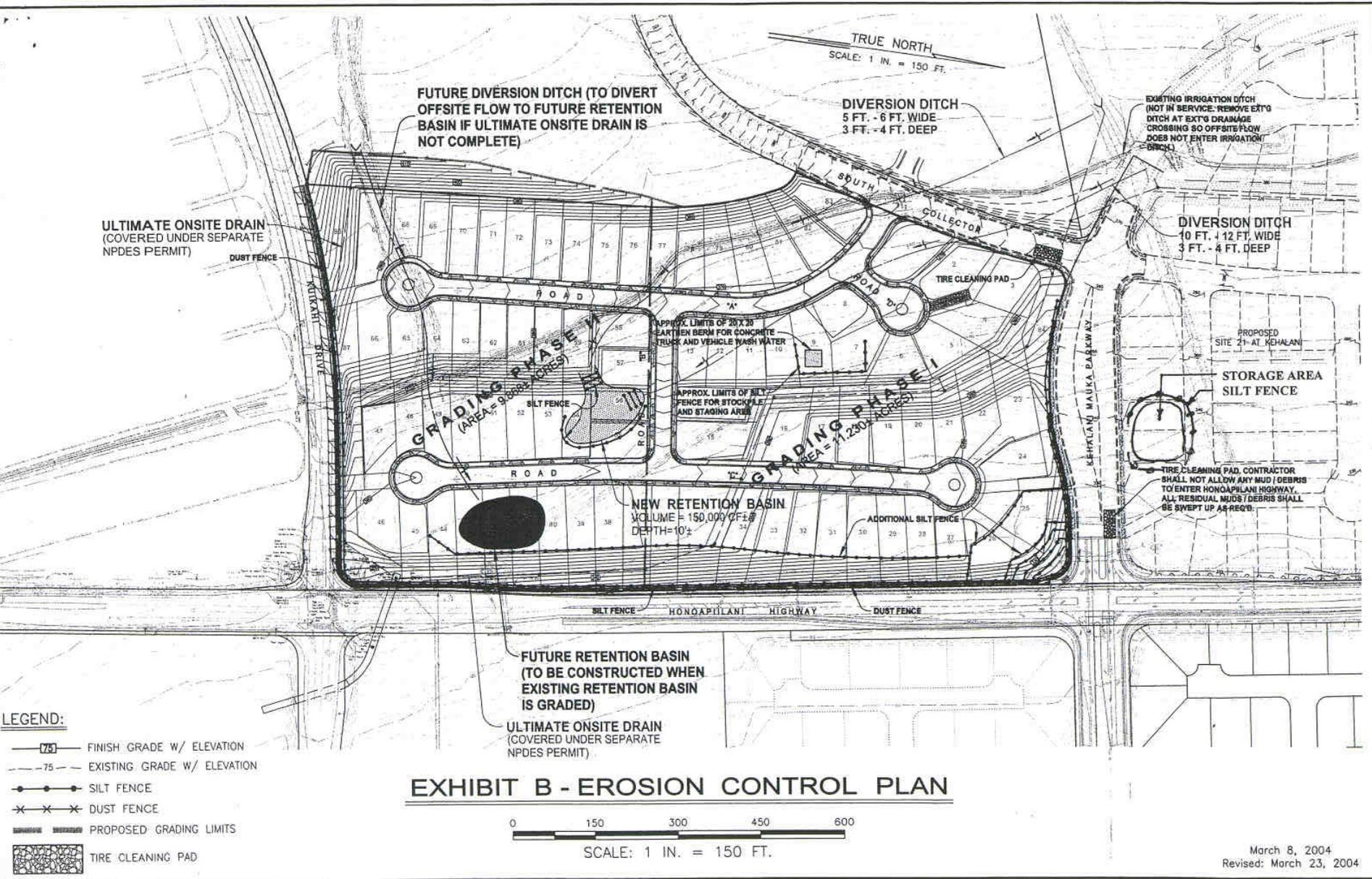
SECTION B
C-8

BLOCK AND GRAVEL CURB INLET FILTER DETAIL
NOT TO SCALE

Notice of Intent Form C Common Errors (Continued)

- Item 15 – Construction Best Management Practices (BMP) Plan (continued)
 - Provide BMPs for any overflow from sediment basin and identify where overflow from the sediment basin will discharge to.





Notice of Intent Form C

Common Errors (Continued)

- Construction Entrance
 - Show the location on the site map.
 - Provide details of the entrance BMPs with dimensions
 - Properly size the entrance BMPs
 - Make sure that the construction entrance does not get buried in or with soil.



Notice of Intent Form C Common Errors (Continued)

- Use of Underground Injection Well or Drywell for Disposal
 - Inform the State of Hawaii, Department of Health, Safe Drinking Water Branch at (808) 586-4258



Notice of Intent Form C

Common Errors (Continued)

- Miscellaneous
 - Indicate “N/A” for any items that are not applicable.
 - Notice of Intent
 - One (1) copy for projects located on the island of Oahu with owner's original signature
 - Two (2) copies for projects located on islands other than Oahu and Hawaii (one with owner's original signature)
 - Three (3) copies for projects located on island of Hawaii (one with owner's original signature)



Notice of Intent Form C

Common Errors (Continued)

- Item 18 – Authorization of Representative
 - Item 18.a. -- authorized to process the NOI and authorization ends upon issuance of NGPC
 - Item 18.b. -- authorized to process the NOI and further to fulfill all the NGPC conditions except submittal of Notice of Cessation.
 - Item 18.c. -- only authorized to fulfill all the NGPC conditions except submittal of Notice of Cessation.



Notice of Intent
Form D
For
General Permit Coverage
Authorizing Discharges of
Treated Effluent From Leaking
Underground Storage Tank
Remedial Activities



Notice of Intent
Form E
For
General Permit Coverage
Authorizing Discharges of Once
through Cooling Water Less than
One (1) Million Gallons Per Day



Notice of Intent
Form F
For
General Permit Coverage
Authorizing Discharges of
Hydrotesting Waters



Notice of Intent Form F

Common Errors

- Item 11.e. Potential Pollutants and Its Sources
 - Silt from installation
 - Chlorine from disinfection
 - Petroleum hydrocarbons from existing fuel tank
- Item 15 Hydrotesting Best Management Practices (BMP) Plan



c. Date(s) on which the hydrotesting activities are expected to occur:

i. Begin hydrotesting activities

June 17, 2004

ii. End hydrotesting activities

June 21, 2004

d. Rates of Effluent Discharge

i. Estimated average daily flow rates

8,400

(efs/gpd)

ii. Estimated maximum daily flow rates

8,400

(efs/gpd)

iii. Total Quantity of Discharge

16,800

(gallons)

e. List the pollutants that may be present in the hydrotesting water before any treatment and provide an explanation of its origins.

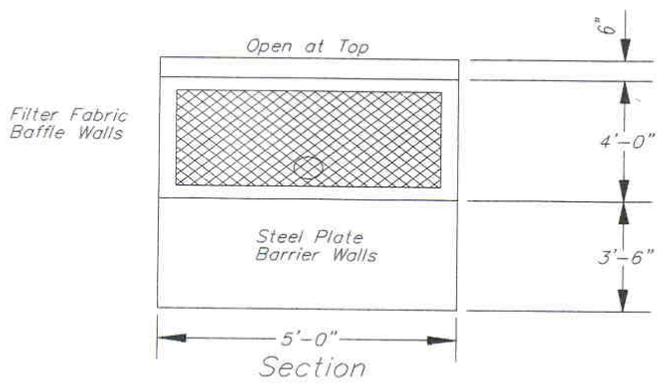
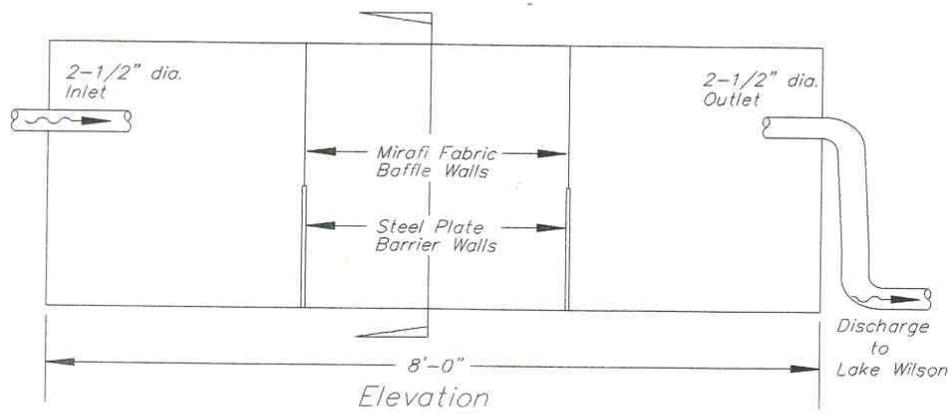
New Water Lines

Sediment, debris, chlorine and other suspended particles may be present in the hydrotest effluent during the initial pipe flushing procedure. No other pollutants are expected in the hydrotesting effluent.

12. Physical Hydrotesting Water Quality (see Guidelines for CWB-NOI Form F - Note 12)

a. Source of Hydrotesting Water

New Water Lines: Potable water used for pipe pressure tests and chlorination process.
See Attachment 2 ~ Mineral Analysis for Wahiawa Well



The filter fabric used in this sediment settling box will be Mirafi 140N.

Notice of Intent
Form G
For
General Permit Coverage
Authorizing Discharges
Associated With Construction
Dewatering



Notice of Intent Form G

Common Errors

- Item 5. – Receiving State Water Information
 - Unlike for storm water, this coverage is for **discharges** of construction dewatering effluent. Therefore, you need to provide a receiving State water.

